

### **Amendments to the Claims**

The following listing of claims will replace all prior versions and listings of claims.

#### **Listing of Claims:**

1. (Original) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
  - (a) a protein consisting of amino acid residues 1 to 113 of SEQ ID NO:59;
  - (b) a protein consisting of amino acid residues 30 to 113 of SEQ ID NO:59;
  - (c) a protein consisting of a portion of SEQ ID NO:59, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:59; and
  - (d) a protein consisting of a portion of SEQ ID NO:59, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:59.
2. (Original) The antibody or fragment thereof of claim 1 that specifically binds protein (a).
3. (Original) The antibody or fragment thereof of claim 1 that specifically binds protein (b).
4. (Original) The antibody or fragment thereof of claim 1 that specifically binds protein (c).
5. (Original) The antibody or fragment thereof of claim 1 that specifically binds protein (d).
6. (Original) The antibody or fragment thereof of claim 2 that specifically binds protein (b).
7. (Original) The antibody or fragment thereof of claim 3, wherein said protein bound by said antibody or fragment thereof is glycosylated.
8. (Original) The antibody or fragment thereof of claim 3 which is a human antibody.
9. (Original) The antibody or fragment thereof of claim 3 which is a polyclonal antibody.

10. (Original) The antibody or fragment thereof of claim 3 which is selected from the group consisting of:
- (a) a chimeric antibody;
  - (b) a humanized antibody;
  - (c) a single chain antibody; and
  - (d) a Fab fragment.
11. (Currently Amended) ~~The~~A labeled antibody or fragment thereof, wherein the antibody or fragment thereof of claim 3 ~~which~~ is labeled.
12. (Currently Amended) The labeled antibody or fragment thereof of claim 11, wherein the label is selected from the group consisting of:
- (a) an enzyme;
  - (b) a radioisotope; and
  - (c) a fluorescent label.
13. (Original) The antibody or fragment thereof of claim 3, wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
14. (Original) The antibody or fragment thereof of claim 3, wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.
15. (Original) An isolated cell that produces the antibody or fragment thereof of claim 3.
- 16-23. (Canceled)
24. (Original) An isolated monoclonal antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
- (a) a protein consisting of amino acid residues 1 to 113 of SEQ ID NO:59;
  - (b) a protein consisting of amino acid residues 30 to 113 of SEQ ID NO:59;

- (c) a protein consisting of a portion of SEQ ID NO:59, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:59; and
  - (d) a protein consisting of a portion of SEQ ID NO:59, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:59.
25. (Original) The antibody or fragment thereof of claim 24 that specifically binds protein (a).
26. (Original) The antibody or fragment thereof of claim 24 that specifically binds protein (b).
27. (Original) The antibody or fragment thereof of claim 24 that specifically binds protein (c).
28. (Original) The antibody or fragment thereof of claim 24 that specifically binds protein (d).
29. (Original) The antibody or fragment thereof of claim 26, wherein said protein bound by said antibody or fragment thereof is glycosylated.
30. (Original) The antibody or fragment thereof of claim 26 which is a human antibody.
31. (Original) The antibody or fragment thereof of claim 26 which is selected from the group consisting of:
- (a) a chimeric antibody;
  - (b) a humanized antibody;
  - (c) a single chain antibody; and
  - (d) a Fab fragment.
32. (Currently Amended) The A labeled antibody or fragment thereof, wherein the antibody or fragment thereof of claim 26 ~~which~~ is labeled.

33. (Currently Amended) The labeled antibody or fragment thereof of claim 32, wherein the label is selected from the group consisting of:
- (a) an enzyme;
  - (b) a radioisotope; and
  - (c) a fluorescent label.
34. (Original) The antibody or fragment thereof of claim 26, wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
35. (Original) The antibody or fragment thereof of claim 26, wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.
36. (Original) An isolated cell that produces the antibody or fragment thereof of claim 26.
37. (Canceled).
38. (Currently Amended) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
- (a) a protein consisting of the full-length polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075;
  - (b) a protein consisting of the mature form of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075;
  - (c) a protein consisting of a portion of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075; and
  - (d) a protein consisting of a portion of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075.

wherein said polypeptide encoded by the HEMCM42 cDNA is at least 95% identical to SEQ ID NO:59.

39. (Original) The antibody or fragment thereof of claim 38 that specifically binds protein (a).
40. (Original) The antibody or fragment thereof of claim 38 that specifically binds protein (b).
41. (Original) The antibody or fragment thereof of claim 38 that specifically binds protein (c).
42. (Original) The antibody or fragment thereof of claim 38 that specifically binds protein (d).
43. (Original) The antibody or fragment thereof of claim 39 that specifically binds protein (b).
44. (Original) The antibody or fragment thereof of claim 40, wherein said protein bound by said antibody or fragment thereof is glycosylated.
45. (Original) The antibody or fragment thereof of claim 40 which is a human antibody.
46. (Original) The antibody or fragment thereof of claim 40 which is a polyclonal antibody.
47. (Original) The antibody or fragment thereof of claim 40 which is selected from the group consisting of:
  - (a) a chimeric antibody;
  - (b) a humanized antibody;
  - (c) a single chain antibody; and
  - (d) a Fab fragment.

48. (Currently Amended) ~~The~~A labeled antibody or fragment thereof, wherein the antibody or fragment thereof of claim 40 ~~which~~ is labeled.
49. (Currently Amended) The labeled antibody or fragment thereof of claim 48, wherein the label is selected from the group consisting of:
- (a) an enzyme;
  - (b) a radioisotope; and
  - (c) a fluorescent label.
50. (Original) The antibody or fragment thereof of claim 40, wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
51. (Original) The antibody or fragment thereof of claim 40, wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.
52. (Original) An isolated cell that produces the antibody or fragment thereof of claim 40.
- 53-60. (Canceled)
61. (Currently Amended) An isolated monoclonal antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:
- (a) a protein consisting of the full-length polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075;
  - (b) a protein consisting of the mature form of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075;
  - (c) a protein consisting of a portion of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075; and

(d) a protein consisting of a portion of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the HEMCM42 cDNA contained in ATCC Deposit Number 209075,  
wherein said polypeptide encoded by the HEMCM42 cDNA is at least 95% identical to SEQ ID NO:59.

62. (Original) The antibody or fragment thereof of claim 61 that specifically binds protein (a).
63. (Original) The antibody or fragment thereof of claim 61 that specifically binds protein (b).
64. (Original) The antibody or fragment thereof of claim 61 that specifically binds protein (c).
65. (Original) The antibody or fragment thereof of claim 61 that specifically binds protein (d).
66. (Original) The antibody or fragment thereof of claim 61 that specifically binds protein (b).
67. (Original) The antibody or fragment thereof of claim 63, wherein said protein bound by said antibody or fragment thereof is glycosylated.
68. (Original) The antibody or fragment thereof of claim 63 which is a human antibody.
69. (Original) The antibody or fragment thereof of claim 63 which is selected from the group consisting of:
  - (a) a chimeric antibody;

- (b) a humanized antibody;
  - (c) a single chain antibody; and
  - (d) a Fab fragment.
70. (Currently Amended) ~~The~~A labeled antibody or fragment thereof, wherein the antibody or fragment thereof of claim 63 ~~which~~ is labeled.
71. (Currently Amended) The labeled antibody or fragment thereof of claim 70, wherein the label is selected from the group consisting of:
- (a) an enzyme;
  - (b) a radioisotope; and
  - (c) a fluorescent label.
72. (Original) The antibody or fragment thereof of claim 63, wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.
73. (Original) The antibody or fragment thereof of claim 63, wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.
74. (Original) An isolated cell that produces the antibody or fragment thereof of claim 63.
75. (Canceled).